

Appl. No. 10/074,508
Amtd. Dated: 6/2/04
Reply to Office Action of March 2, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A liquid crystal display device comprising:
a light generating means for generating part to generate a light;
a light guiding means for guiding part to guide the light to a display means for displaying part to display an image;
a reflecting means part disposed under said the light guiding means, for part, the reflecting part reflecting the light toward said the light guiding means part; and
a receiving means for receiving said part to receive the reflecting means part, said the light guiding means part and said the light generating means part,

wherein said the receiving means part comprises at least one wall and at least one boss formed at a bottom surface thereof of the receiving part, said the at least one boss guiding a position of said the light generating means part and preventing said the light generating means part from being moved, the at least one boss being spaced apart from the at least one wall.

2. (Currently Amended) The liquid crystal display device of claim 1, wherein said the receiving means part comprises a first receiving container having a side wall and a bottom, said the bottom comprising an opening to expose a rear surface of said the reflecting means part; and

a second receiving container being combined with said the first receiving container for preventing said to prevent the reflecting means part, said the light guiding means part and said the light generating means part from separating from said the first receiving container.

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3. (Currently Amended) The liquid crystal display device of claim 2, wherein said the bottom of said the first receiving container comprises said the at least one boss at at least one corner portion thereof, said the at least one boss being spaced from said the side wall of said the first receiving container.

4. (Currently Amended) The liquid crystal display device of claim 3, wherein said the boss is formed at four corner portions of the bottom of said the first receiving container.

5. (Currently Amended) The liquid crystal display device of claim 2, wherein said the reflecting means part comprises a reflecting body portion, and a reflection portion extended from an end of said the reflecting body portion with a predetermined length, and enclosing an outer face of said the light generating means part.

6. (Currently Amended) The liquid crystal display device of claim 1, wherein said the reflecting means part comprises a reflecting body portion, a first reflecting member extended from an end of said the reflecting body portion and a second reflecting member extended from an end of said the first reflecting member, said the second reflecting member covering an upper portion of said the light generating means part.

7. (Currently Amended) The liquid crystal display device of claim 5, wherein said the reflecting means part comprises at least one first hole corresponding to said the at least one boss on the bottom of said the first receiving container, and said the at least one first hole being combined with said the at least one boss, guiding said the reflecting means part to a receiving position in said the first receiving container.

8. (Currently Amended) The liquid crystal display device of claim 5, wherein said the light generating means part includes a lamp having a bending portion.

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9. (Currently Amended) The liquid crystal display device of claim 8, wherein the lamp is received between said the at least one boss and said the side wall of said the first receiving container.

10. (Currently Amended) The liquid crystal display device of claim 8, wherein said the reflection portion is extended from at least two adjacent ends of said the reflecting body portion an upper face of said the bending portion of said the lamp being covered with an overlapped portion of said the reflection portion.

11. (Currently Amended) The liquid crystal display device of claim 10, wherein said the bending portion of said the lamp comprises first and second bending portions and said the reflection portion comprises first, second and third reflection portions extended from first, second and third ends of said the reflecting body portion, respectively, and each of upper faces of said the first and second bending portions being covered with overlapped portions of said the first and second reflection portions and said the second and third reflection portions, respectively.

12. (Currently Amended) The liquid crystal display device of claim 11, wherein a first end portion of said the first reflection portion covering said the first bending portion is extended longer than a first end portion of said the second reflection portion.

13. (Original) The liquid crystal display device of claim 11, wherein a second end portion of the third reflection portion covering the second bending portion is extended longer than a second end portion of the second reflection portion.

14. (Currently Amended) The liquid crystal display device of claim 8, wherein said the bottom of said the receiving means part comprises a vent opening to discharge a heat generated from the lamp.

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15. (Currently Amended) The liquid crystal display device of claim 2, further comprising a light controlling means ~~on said part disposed on the light guiding means, for controlling part to control~~ a brightness of the light emitted from ~~said the~~ light guiding means part.

16. (Currently Amended) The liquid crystal display device of claim 15, wherein ~~said the~~ light controlling means part comprises at least one diffusion sheet ~~for enlarging to enlarge~~ a visual angle of the light emitted from ~~said the~~ light guiding means part.

17. (Currently Amended) The liquid crystal display device of claim 15, wherein ~~said the~~ first receiving container comprises an isolation wall, ~~said the~~ wall comprising at least one protuberance to guide a receiving position of ~~said the~~ light controlling means part.

18. (Currently Amended) The liquid crystal display device of claim 17, wherein ~~said the~~ light controlling means part comprises at least one protruding portion, ~~said the~~ at least one protruding portion being partially extended from one end of ~~said the~~ light controlling means part and including a second hole, ~~said the~~ hole being combined with ~~said the~~ at least one protuberance of ~~said the~~ first receiving container, preventing ~~said the~~ light controlling means part from being moved within ~~said the~~ receiving means part.

19. (Currently Amended) The liquid crystal display device of claim 15, wherein ~~said the~~ second receiving container has a bottom including an opening ~~for guiding to guide~~ the light emitted from ~~said the~~ light controlling means part to ~~said the~~ display means part, and a border defining ~~said the~~ opening, ~~said the~~ border having a width to cover ~~said the~~ at least one boss of ~~said the~~ first receiving container.

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20. (Currently Amended) The liquid crystal display device of claim 2, further comprising a top chassis, wherein said the top chassis is combined with said the first receiving container, ~~for fixing said to fix the display means part to said the second receiving container, and said the top chassis includes a bottom having an opening corresponding to an effective display area of said the display means part.~~

21. (Currently Amended) The liquid crystal display device of claim 20, further comprising a printed circuit board, wherein said the printed circuit board is combined with a rear surface of said the first receiving container, ~~for the printed circuit board controlling operations of said the light generating means part and said the display means part.~~

22. (Currently Amended) The liquid crystal display device of claim 21, wherein said the top chassis comprises a combining portion partially extended from a side wall of said the top chassis, and the combining portion is combined with a ground terminal of said the printed circuit board.

23. (Currently Amended) The liquid crystal display device of claim 2, wherein said the light generating means part comprises a power supply line connected at opposite ends of said the light generating means part, for the light generating part receiving a driving power.

24. (Currently Amended) The liquid crystal display device of claim 23, wherein said the bottom of said the first receiving container comprises an isolation wall spaced from said the side wall of said the first receiving container, and said the power supply line is guided through a space between said the isolation wall and said the side wall of said the first receiving container.

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25. (Currently Amended) The liquid crystal display device of claim 24, further comprising a light controlling means part disposed on said the light guiding means, for controlling part to control the light emitted from said the light guiding means part to provide said the display means part with a controlled light.

26. (Currently Amended) The liquid crystal display device of claim 25, wherein said the isolation wall comprises an upper surface including at least one protuberance to guide said the light controlling means part to a receiving position.

27. (Currently Amended) The liquid crystal display device of claim 26, wherein said the at least one protuberance is protruded from said the isolation wall toward said the side wall of said the first receiving container, for preventing said to prevent the power supply line received between said the isolation and side walls from being released.

28. (Currently Amended) The liquid crystal display device of claim 26, wherein said the light controlling means part comprises a plurality of protruding portions at one end thereof, each of said the plurality of protruding portions having a second hole and being combined with each of the plurality of protuberances, preventing said the light controlling means part from being moved within said the receiving means part.

29. (Withdrawn) A liquid crystal display device comprising:
a display means for displaying an image;
a receiving means for receiving said display means;
a power supplying means for providing a driving power to said display means;
and
a printed circuit board having an opening into which said power supplying means is inserted and received.

30. (Withdrawn) The liquid crystal display device of claim 29, wherein said power supplying means is disposed at a back of said receiving means.

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31. (Withdrawn) The liquid crystal display device of claim 30, wherein said power supplying means is a transformer for converting a power from outside into the driving power which is to be provided to said display means.

32. (Withdrawn) A liquid crystal display device comprising:
a display means for displaying an image;
a receiving means for receiving said display means;
a first printed circuit board disposed at a back of said receiving means, said first printed circuit board having a power supplying means for providing a driving power to said display means and a signal converting means for converting a signal which is to be provided to said display means;

a first connector installed on a second printed circuit board separated from said first printed circuit board, said first connector being connected to said power supplying means through a power supplying line for providing a power inputted from outside to said power supplying means;

a second connector installed on a third printed circuit board separated from said first and said second printed circuit boards, said second connector being connected to said signal converting means through a data transmitting line for providing a data signal inputted from outside to said signal converting means;

a front case; and

a rear case combined with said front case to receive said display means,
wherein said front and rear cases respectively comprise first and second openings for receiving said second and third printed circuit boards, respectively, and for exposing said first and said second connectors to be movable within said first and second openings.

33. (Withdrawn) The liquid crystal display device of claim 32, wherein said first printed circuit board includes a third opening in which said power supplying means is inserted and received.

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34. (Withdrawn) The liquid crystal display device of claim 33, wherein said power supplying means is a transformer for converting a power from outside into the driving power which is to be provided to said display means.

35. (Withdrawn) A liquid crystal display device comprising:
a light generating means for generating a light;
a light guiding means for guiding the light to a display means for displaying an image;
a reflecting means installed under said light guiding means, for reflecting the light toward said light guiding means; and
a receiving means for receiving said reflecting means, said light guiding means and said light generating means,
wherein said reflecting means comprises a reflecting body portion, and a reflection portion, said reflection portion being extended from an end of said reflecting body portion with a predetermined length, and enclosing an outside of said light generating means.

36. (Withdrawn) The liquid crystal display device of claim 35, wherein said reflecting means comprises a first reflecting member extended from an end of said reflecting body portion and a second reflecting member extended from an end of said first reflecting member, said second reflecting member covering an upper portion of said light generating means.

37. (Withdrawn) The liquid crystal display device of claim 35, wherein said receiving means comprises:

a first receiving container having a side wall and a bottom, said bottom comprising an opening to expose a rear surface of said reflecting means; and
a second receiving container, being combined with said first receiving container, for preventing said reflecting means, said light guiding means and said light generating means from being separated from said first receiving container.

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38. (Withdrawn) The liquid crystal display device of claim 37, wherein said bottom of said first receiving container comprises bosses at corner portions of the bottom, the bosses being spaced from the side wall of said first receiving container.

39. (Withdrawn) The liquid crystal display device of claim 38, wherein said reflecting means comprises at least one hole corresponding to the bosses, said at least one hole being combined with said bosses, guiding said reflecting means to a receiving position.

40. (Withdrawn) The liquid crystal display device of claim 39, wherein said light generating means is an integral lamp having a bending portion and is received between the bosses and the side wall of said first receiving container.

41. (Withdrawn) The liquid crystal display device of claim 40, wherein said reflection portion is extended from at least two adjacent ends of said reflecting body portion, an upper face of said bending portion of the lamp being covered with an overlapped portion of said reflection portion.

42. (Withdrawn) The liquid crystal display device of claim 41, wherein said bending portion of said lamp comprises first and second bending portions and said reflection portion comprises first, second and third reflection portions extended from first, second and third ends of said reflecting body portion, each of upper surfaces of said first and second bending portions being covered with an overlapped portion of said first and second reflection portions and said second and third reflection portions, respectively.

43. (Withdrawn) The liquid crystal display device of claim 42, wherein a first end portion of the first reflection portion covering the first bending portion is extended longer than a first end portion of the second reflection portion.

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44. (Withdrawn) The liquid crystal display device of claim 42, wherin a second end portion of the third reflection portion covering the second bending portion is extended longer than a second end portion of the second reflection portion.

45. (New) The liquid crystal display device of claim 1, wherein the at least one boss is disposed between the light generating part and the light guiding part to prevent collision of the light generation part with the light guiding part.